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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,431	02/26/2004	Shi-Wai S. Cheng	GP-300576 4757	
60770 General Motors	7590 04/27/201 Corporation	EXAMINER		
c/o REISING E	THINGTON P.C.	WARTALOWICZ, PAUL A		
P.O. BOX 4390 TROY, MI 480			ART UNIT	PAPER NUMBER
			1735	
			MAIL DATE	DELIVERY MODE
			04/27/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	pplication No. Applicant(s)					
		10/787,431		CHENG, SHI-WAI S.				
		Examiner		Art Unit				
			ARTALOWICZ	1735				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on 09 Fe	ebruary 2015	ı					
,	This action is <b>FINAL</b> . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	•	n pano ada,	7.0, 1000 0.2. 11, 10	0 0.0.2.0.				
Disposit	ion of Claims							
<ul> <li>4) ☐ Claim(s) 22-24,26,27,29-32 and 34-47 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 22-24,26,27,29-32 and 34-47 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

#### **DETAILED ACTION**

# Response to Arguments

Applicant's arguments with respect to claims 22-24, 26, 27, 29-32, 34-47 have been considered but are most in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 22-24, 26, 27, 29-32, 34-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation in claim 22, line 20; claim 30, line 18; claim 40, line 16; claim 43, line 21 recite the limitation of "the carbon filter combination". There is insufficient antecedent basis for this limitation in the claim.

Claims 29 and 47 are rejected under 35 U.S.C. 112, fourth paragraph, as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 29 depends from canceled claim 28 and claim 47 depends from canceled claim 1. These claims are treated as being dependent on claim 22.

### Claim Objections

Claim 22 is objected to because of the following informalities: the recitation in line 5 of "filter circumferentially surrounds" appears to have an extraneous mark

between "circumferentially" and "surrounds" and the mark should be stricken.

Appropriate correction is required.

# Allowable Subject Matter

Claims 22-24, 26, 27, 29-32, 34-47 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not teach or suggest a product comprising a catalyzed foam filter and a wall flow filter combination wherein the wall flow filter circumferentially surrounds at least a part of the catalyzed foam filter and wherein the exhaust gas flows through the foam filter and then a space between the foam filter and the wall flow filter and then the wall flow filter wherein the product is constructed and arranged to convert NO in engine exhaust to NO<sub>2</sub>.

Specifically, US 6808688, teaches a filter configuration substantially similar to the claims (fig. 1; col. 3, line 60-col. 4, line 22). However, '688 fails to teach, and indeed disparages, the use of a catalytic foam filter (col. 2, lines 35-50) in the filter configuration. Therefore, it would not have been obvious to one of ordinary skill in the art at the time applicant's invention was made to combine the filter configuration of claims 22, 30, 40, or 43 with a catalyzed foam filter without the benefit of applicant's disclosure.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL A. WARTALOWICZ whose telephone number is (571)272-5957. The examiner can normally be reached on 8:30-6 M-Th and 8:30-5 on Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jessica L. Ward can be reached on (571) 272-1223. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Paul A Wartalowicz/ Examiner, Art Unit 1735

/Jessica L. Ward/ Supervisory Patent Examiner, Art Unit 1735